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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/755,661	01/12/2004	Liesbeth M. Longueville	02-510	9307
719 7590 02/05/2007 CATERPILLAR INC. 100 N.E. ADAMS STREET			EXAMINER	
			BROWN, DREW J	
PATENT DEPT. PEORIA, IL 6162	96490		ART UNIT	PAPER NUMBER
1 1011111, 111 0101	10290190		3616	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/755,661	LONGUEVILLE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Drew J. Brown	3616			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 1/3/0	7 (amendment after final)				
, —	· · · · · · · · · · · · · · · · · · ·				
-,=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-13 is/are pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>12 and 13</u> is/are allowed.					
6)⊠ Claim(s) <u>1-3 and 6-11</u> is/are rejected.					
7)⊠ Claim(s) <u>4 and 5</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal				
Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

This Office Action is in response to the amendment after final filed on 1/3/07. Claim 1 has been amended and claim 14 has been canceled.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims land 7-8 are
 2. Claims rejected under 35 U.S.C. 102(b) as being anticipated by Perry (U.S. Pat. No. 5,366,036).

Perry discloses a device (54 and 226) configured to control select functions of a machine (20), wherein the machine includes an operator's station including a seat (Figure 1). An interface module (54) has a connecting portion (end of linkage 236 containing pin 238) and a working portion (Figure 10), wherein the interface module connecting portion is pivotally and directly connectable to the at least one armrest (Figure 8) associated with the seat in the machine and is adapted to shift the working portion laterally between a retracted position and an extended position relative to the at least one armrest (column 9, lines 40-49).

With respect to claims 7 and 8, an interface module connecting mechanism (226) is adapted to interconnect the interface module connecting portion and the at least one armrest. The at least one armrest has upper and lower surface portions and the interface module connecting mechanism includes a pivot pin (238) connectably engageble with the interface module connecting portion and the at least one armrest along an axis of rotation substantially perpendicular to the at least one of the armrest surface portions (Figure 8). The interface module connecting mechanism includes a linkage (236) having a first end portion connectable to the interface module connecting portion and a second end portion connectable to the at least one armrest (Figure 8), and the linkage includes at least a first and second link arms (Figure 8), wherein each of the first and second link arms are spaced apart from the other and have first end

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portions pivotally connectable to the interface module connecting portion and second end portions pivotally connectable to the at least one armrest (Figure 8).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Perry in view of Palmeri et al. (U.S. Pat. No. 6,065,560).

With respect to claim 6, Perry discloses that the interface module includes a plurality of actuating devices associated with the respective machine functions (Figure 4), wherein the plurality of actuating devices are arranged on a surface of the working surface at respective locations selected to facilitate manual manipulation of the actuating devices.

Although Perry does not disclose that the working portion of the interface module includes an upwardly convex generally ovoid surface, the working portion (28) of the interface module (20) of Palmeri does have an upwardly convex, generally ovoid surface.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Perry in view of the teachings of Palmeri et al. to have the working portion of the interface module include an upwardly convex generally ovoid surface, since it has generally been recognized that changing the shape of an element while performing the same task equally well involves only routine skill in the art.

5. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Perry in view of Klaassen (U.S. Pat. No. 4,478,308).

Perry discloses the claimed invention as discussed above and that a right-hand armrest includes an interface module having a right-hand configuration determined in response to the respective right-hand position of the associated armrest.

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However, Perry does not disclose the same for a left-hand armrest. Klaassen does disclose that both right and left-hand armrests with corresponding interface modules can be used in the same machine.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Perry et al. in view of the teachings of Klaassen to have a left-hand armrest and corresponding interface module in order to have more controls available to the driver.

6. Claims 1-3 and 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson et al. (U.S. Pat. No. 5,617,929) in view of Palmeri et al. (U.S. Pat. No. 6,065,560).

With respect to claim 1, Richardson et al. discloses a device (10) configured to control select functions of a machine (16), wherein the machine includes an operator's station (Figure 1) including a seat (12). An interface module (38) has a connecting portion (47) and a working portion (42), wherein the interface module is adapted to shift the working portion laterally between a retracted positions and an extended position relative to the at least one armrest (column 1, lines 57-64).

Richardson et al. does not disclose at least one armrest being supportably positionable adjacent to the seat, wherein the interface module connecting portion is pivotally and directly "connectable" to the at least one armrest associated with the seat in the machine. Palmeri et al., however, does disclose at least one armrest being supportably positionable adjacent to the seat (Figure 1), wherein the interface module connecting portion is pivotally and directly connectable to the at least one armrest (via seat 12 of Richardson et al.) associated with the seat in the machine.

The functional recitation that the connecting portion is "connectable," either pivotally or directly, does not serve to distinguish because it is narrative in form. The recitation is not supported by recitation in the claim of sufficient structure to warrant the presence of the functional language. Further, it has been held that the recitation that an element is "capable of" performing a function is not a positive limitation but only requires the ability to so perform. Accordingly, the connecting portion of Richardson is "connectable" to the at least one armrest as claimed.

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Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Richardson et al. in view of the teachings of Palmeri et al. to have an armrest attached to the seat so the driver can rest his/her arm when the interface module is in the retracted position.

With respect to claim 2, wherein in the retracted position (Figure 2 of Richardson), the interface module working portion is at least partially concealed by the at least one armrest and in the extended position (Figure 1 of Richardson) the interface module working portion is substantially free from obstruction by the at least one armrest.

With respect to claim 3, Richardson et al. discloses that the at least one armrest has upper and lower surface portions and that the interface module working portion moves laterally between the retracted and extended positions along a first plane extending generally horizontally (column 1, lines 57-64) below the at least one armrest lower surface portion and at an elevational position sufficient that the interface module working portion is at least partially located below the at least one armrest lower surface portion when the interface module working portion is in the retracted position (Figure 2).

With respect to claim 6, the interface module includes a plurality of actuating devices associated with the respective machine functions (Figure 4), wherein the plurality of actuating devices are arranged on a surface of the working surface at respective locations selected to facilitate manual manipulation of the actuating devices.

Although Richardson does not disclose that the working portion of the interface module includes an upwardly convex generally ovoid surface, the working portion (28) of the interface module (20) of Palmeri does have an upwardly convex, generally ovoid surface.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Richardson et al. in view of the teachings of Palmeri et al. to have the working portion of the interface module include an upwardly convex generally ovoid surface, since it has generally been recognized that changing the shape of an element while performing the same task equally well involves only routine skill in the art.

With respect to claim 7, Richardson et al. discloses an interface module connecting mechanism (28) adapted to interconnect the interface module connecting portion and the at least one armrest (via seat 12).

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With respect to claim 8, Richardson et al. discloses that the at least one armrest has upper and lower surface portions and that the interface module connecting mechanism includes a pivot pin (34) connectably engageble with the interface module connecting portion and the at least one armrest along an axis of rotation substantially perpendicular to the at least one of the armrest surface portions.

With respect to claim 9, Richardson et al. discloses that the interface module connecting mechanism includes a linkage having a first end portion (36) connectable to the interface module connecting portion and a second end portion (32) connectable to the at least one armrest.

With respect to claim 10, Richardson et al. discloses that the linkage includes at least first (28) and second (30) link arms, wherein each of the first and second link arms are spaced apart one from the other (Figure 1) and have first end portions (36) pivotally connectable to the interface module connecting portion and second end portions (32) pivotally connectable to the at least one armrest.

7. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson et al. in view of Palmeri et al., and further in view of Klaassen (U.S. Pat. No. 4,478,308).

The combination of Richardson et al. and Palmeri et al. discloses the claimed invention as discussed above and that a right-hand armrest includes an interface module having a right-hand configuration determined in response to the respective right-hand position of the associated armrest.

However, the combination does not disclose the same for a left-hand armrest. Klaassen does disclose that both right and left-hand armrests with corresponding interface modules can be used in the same machine.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the invention of Richardson et al. in view of the teachings of Klaassen to have a left-hand armrest and corresponding interface module in order to have more controls available to the driver.

Allowable Subject Matter

8. Claims 12 and 13 are allowed.

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9. Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

10. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ball discloses a seat with an interface module.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Drew J. Brown whose telephone number is 571-272-1362. The examiner can normally be reached on Monday-Thursday from 8 a.m. to 4 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul N. Dickson can be reached on 571-272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Drew J. Brown Examiner Art Unit 3616

db 1/31/07

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PRIMARY EXAMINED